Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

Conversions with Scientific Notation Classwork/Guided Practice

***Directions***: Tell whether each number is written correctly in scientific notation. If it is incorrectly written, **state the reason**.

1. A mosquito is about 2 ∙ 10-3 centimeters in length.
2. Neptune is about 44.88 ∙ 108 kilometers from the sun.
3. ***Directions:*** Write each number in scientific notation.

|  |  |
| --- | --- |
| Standard Form | Scientific Notation |
| 0.0236 |  |
| 0.00001 |  |
| 0.004 |  |
| 0.00000356 |  |
| 0.010003 |  |
| 0.489 |  |
| .00000000066 |  |

1. ***Directions:*** Write each number in standard form.

|  |  |
| --- | --- |
| Scientific Notation | Standard Form |
| 3.02 ∙ 10-5 |  |
| 5.01 ∙ 10-2 |  |
| 4.007 ∙ 10-3 |  |

***5. Directions:*** Complete the table

|  |  |
| --- | --- |
| Standard Form | Scientific Notation |
| 4520 |  |
|  | 7.32 ∙ 10-4 |
| 0.00125 |  |
| 0.486 |  |
|  | 8.0045 ∙ 103 |
| 9235000 |  |
|  | 1.036 ∙ 10-6 |
|  | 6.45 ∙ 107 |
| 2.036 |  |
| 0.00000000742 |  |
|  | 3.222 ∙ 102 |
| 51.36 |  |
|  | 4.12306 ∙ 107 |
|  | 3.003 ∙ 10-3 |
| 0.000000000009 |  |
|  | 7.015 ∙ 10-1 |
|  | 5.124 ∙ 106 |
| 0.0007 |  |